nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:730, a degenerate variant of SEQ ID NO:730, and a complement of SEQ ID NO:730.

14. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 13.

15. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 13.

16. (New) An isolated recombinant host cell containing the polynucleotide of claim 13.

17. (New) An isolated vector comprising the polynucleotide of claim 13.

18. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 13.

19. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 13 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

20. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00004158C: F03 of ATCC Deposit Number PTA-64.

21. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:731, a degenerate variant of SEQ ID NO:731, and a complement of SEQ ID NO:731.

22. (New) An isolated polynucleotide which hybridizes under stringent conditions to the

polynucleotide of claim 21.

23. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 21.

24. (New) An isolated recombinant host cell containing the polynucleotide of claim 21.

25. (New) An isolated vector comprising the polynucleotide of claim 21.

26. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 21.

27. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 21 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

28. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00004031D:G02 of ATCC Deposit Number PTA-64 .

29. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO: 919, a degenerate variant of SEQ ID NO: 919, and a complement of SEQ ID NO: 919.

30. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 29.

31. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 29.

32. (New) An isolated recombinant host cell containing the polynucleotide of claim 29.

33. (New) An isolated vector comprising the polynucleotide of claim 29.

34. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 29.

35. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 29 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

36. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00005378C:A10 of ATCC Deposit Number PTA-48.

37. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:972, a degenerate variant of SEQ ID NO:972, and a complement of SEQ ID NO:972.

38. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 29.

39. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 29.

40. (New) An isolated recombinant host cell containing the polynucleotide of claim 29.

41. (New) An isolated vector comprising the polynucleotide of claim 29.

42. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 29.

43. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 29 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

44. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00007118B:B04 of ATCC Deposit Number PTA-60.

45. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:973, a degenerate variant of SEQ ID NO:973, and a complement of SEQ ID NO:973.

46. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 45.

47. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 45.

48. (New) An isolated recombinant host cell containing the polynucleotide of claim 45.

49. (New) An isolated vector comprising the polynucleotide of claim 45.

50. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 45.

51. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 45 under conditions

suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

52. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00007019A:B01 of ATCC Deposit Number PTA-60.

53. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:1128, a degenerate variant of SEQ ID NO:1128, and a complement of SEQ ID NO:1128.

54. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 53.

55. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 53.

56. (New) An isolated recombinant host cell containing the polynucleotide of claim 53.

57. (New) An isolated vector comprising the polynucleotide of claim 53.

58. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 53.

59. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 53 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

60. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00006745A:A01of ATCC Deposit Number PTA-53.

61. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:1192, a degenerate variant of SEQ ID NO:1192, and a complement of SEQ ID NO:1192.

62. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 61.

63. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 61.

64. (New) An isolated recombinant host cell containing the polynucleotide of claim 61.

65. (New) An isolated vector comprising the polynucleotide of claim 61.

66. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 61.

67. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 61 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

68. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00005404C1F02 of ATCC Deposit Number PTA-62.

69. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:1254, a degenerate variant of SEQ ID NO:1254, and a complement of SEQ ID NO:1254.

70. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 69.

71. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 69.

72. (New) An isolated recombinant host cell containing the polynucleotide of claim 69.

73. (New) An isolated vector comprising the polynucleotide of claim 69.

74. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 69.

75. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 69 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

76. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00007163A:B10 of ATCC Deposit Number PTA-55.

77. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:1290, a degenerate variant of SEQ ID NO:1290, and a complement of SEQ ID NO:1290.

78. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 77.

79. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous

nucleotides of the polynucleotide of claim 77.

80. (New) An isolated recombinant host cell containing the polynucleotide of claim 77.

81. (New) An isolated vector comprising the polynucleotide of claim 77.

82. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 77.

83. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 77 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

84. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00022202C:F11 of ATCC Deposit Number PTA-50.

85. (New) An isolated polynucleotide comprising at least 15 contiguous nucleotides of a nucleotide sequence having at least 90% sequence identity to a sequence selected from the group consisting of: SEQ ID NO:1492, a degenerate variant of SEQ ID NO:1492, and a complement of SEQ ID NO:1492.

86. (New) An isolated polynucleotide which hybridizes under stringent conditions to the polynucleotide of claim 85.

87. (New) An isolated antisense nucleic acid molecule comprising at least 15 contiguous nucleotides of the polynucleotide of claim 85.

88. (New) An isolated recombinant host cell containing the polynucleotide of claim 85.

89. (New) An isolated vector comprising the polynucleotide of claim 85.

90. (New) A library of polynucleotides, the library comprising the sequence information of the polynucleotide of claim 85.

91. (New) A method for producing a polypeptide, the method comprising the steps of:

culturing a recombinant host cell containing the polynucleotide of claim 85 under conditions suitable for the expression of an encoded polypeptide;

recovering the polypeptide from the host cell culture.

92. (New) A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as clone number M00022404B:H05 of ATCC Deposit Number PTA-48. --

REMARKS

Formal Matters

Claims 13-92 are pending after entry of the amendments set forth above.

Claims 1-12 are canceled without prejudice to renewal, and without intent to abandon any subject matter contained therein. Applicants expressly reserve the right to pursue the subject matter of the canceled claims in a continuing application.

The specification is amended to provide the ATCC deposit numbers. Copies of the ATCC deposit certificates are submitted with this amendment.

Support for new claims 13-92 is found throughout the specification, including in the claims as originally filed. The table below summarizes the general subject matter of each claim, and provides exemplary support in the specification.

Claims	Exemplary Support in the Specification
13-15, and 20; 21-23 and 28; 29-31 and 36; 37-39 and 44; 45-47 and 52; 53-55 and 60; 61-63 and 68; 69-71 and 76; and 77-79 and 84.(isolated polynucleotides)	Original claims 6 and 11, and in the specification at, for example, page 1, line 33 to page 4, line 12; page 16, line 26 to page 18, line 14; and page 20, line 16 to page 23, line 17.
16-18; 24-26; 32-34 40-42; 48-50; 56-58; 64-66;	Original claims 1-5, 7, and 10.